FIG.1

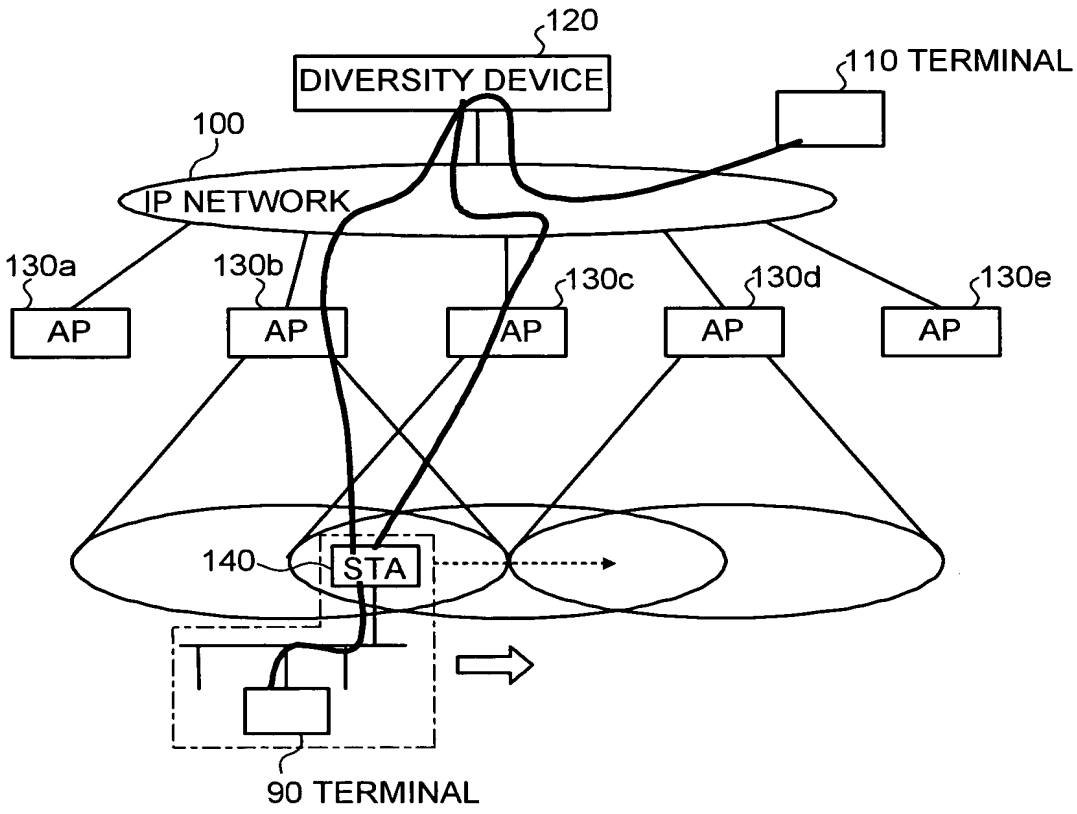

120
DIVERSITY DEVICE
110 TERMINAL
100
IP NETWORK
130a
130b
130c
130d
130e
AP
AP
AP
AP
AP
140
STA
90 TERMINAL

FIG.2

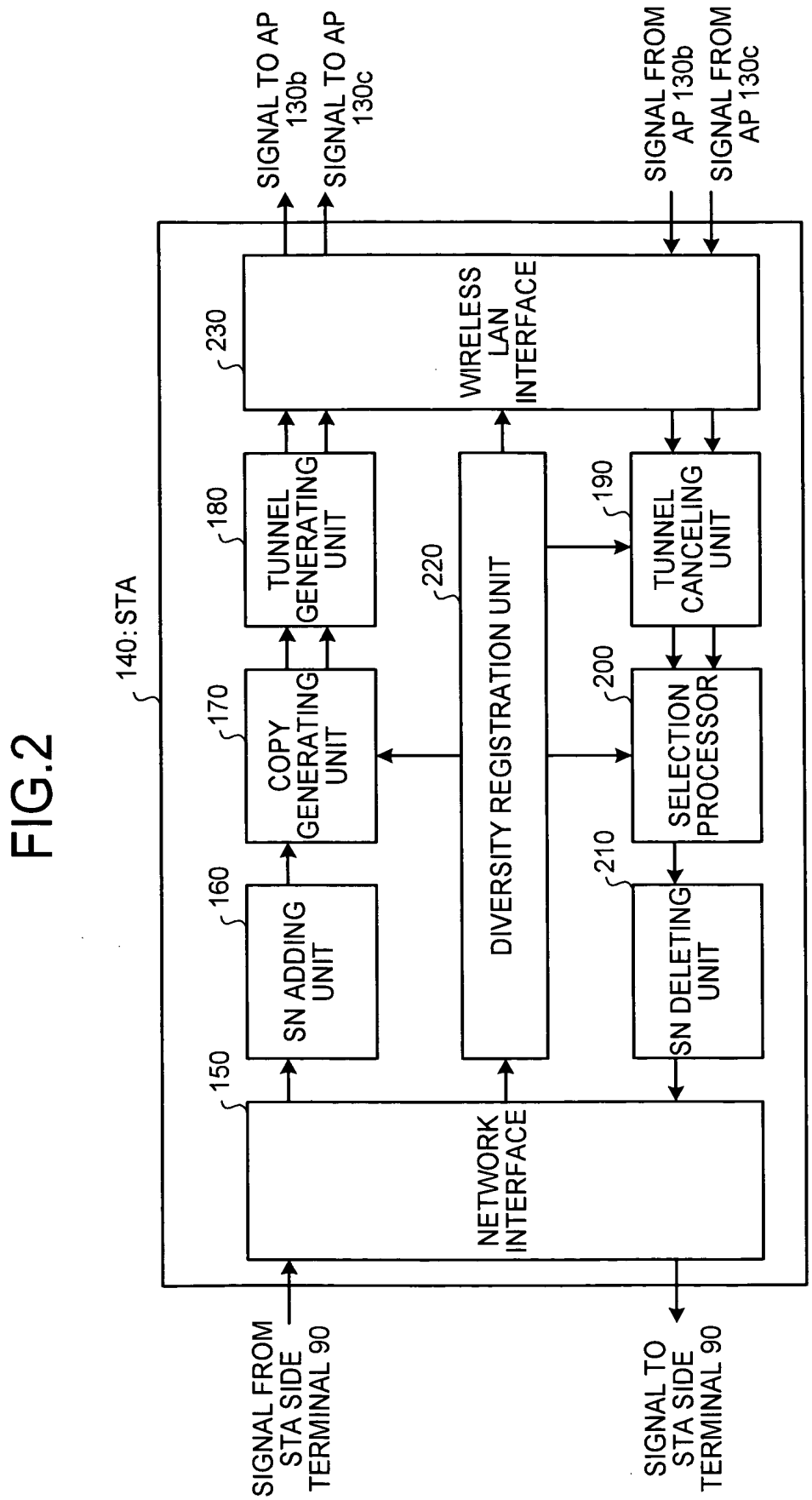

140: STA
SIGNAL FROM STA SIDE TERMINAL 90
SIGNAL TO STA SIDE TERMINAL 90
SIGNAL TO AP 130b
SIGNAL TO AP 130c
SIGNAL FROM AP 130b
SIGNAL FROM AP 130c
NETWORK INTERFACE
150
SN ADDING UNIT
160
COPY GENERATING UNIT
170
TUNNEL GENERATING UNIT
180
DIVERSITY REGISTRATION UNIT
220
SN DELETING UNIT
210
SELECTION PROCESSOR
200
TUNNEL CANCELING UNIT
190
WIRELESS LAN INTERFACE
230

FIG.3

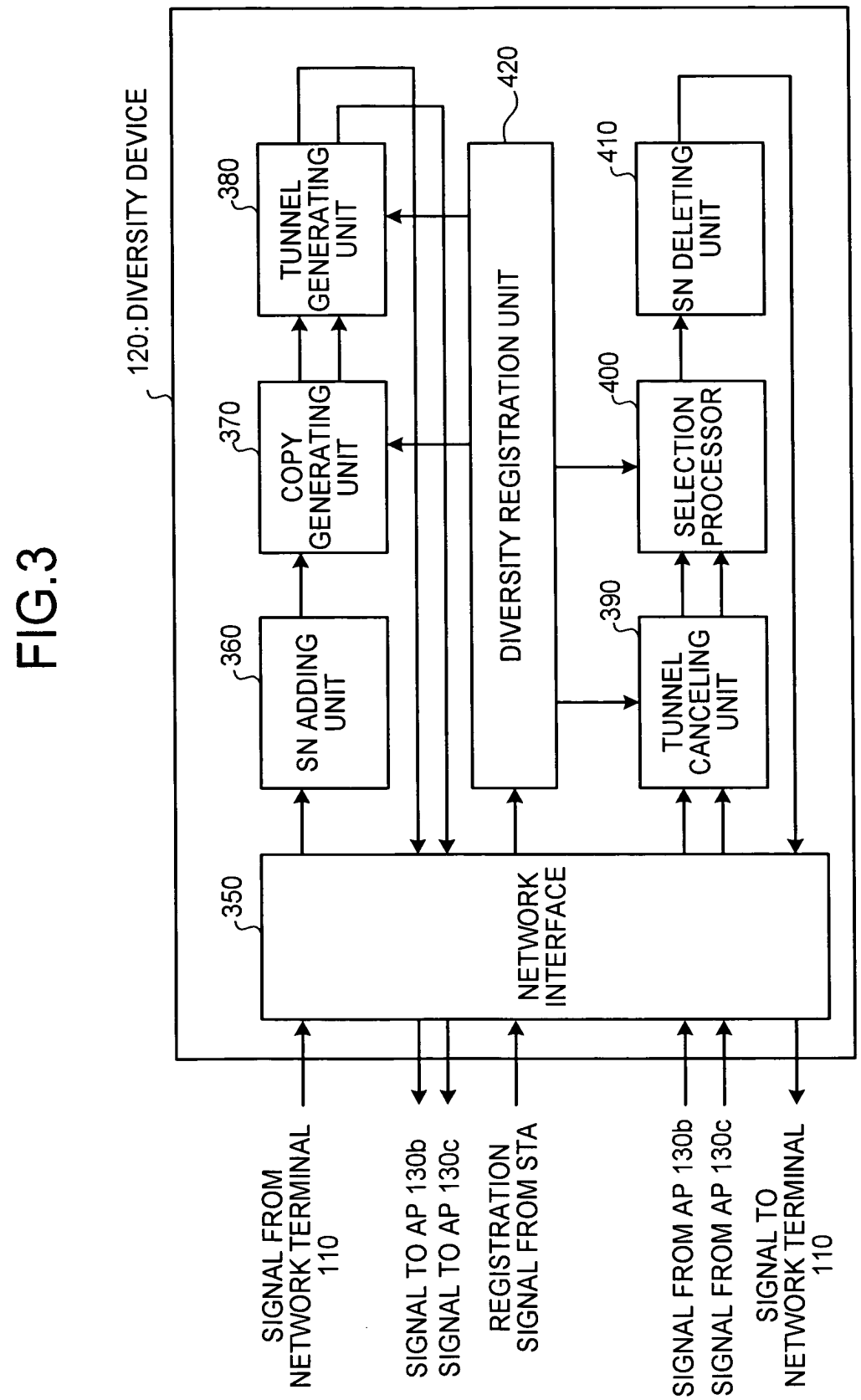

120: DIVERSITY DEVICE
350
NETWORK INTERFACE
360
SN ADDING UNIT
370
COPY GENERATING UNIT
380
TUNNEL GENERATING UNIT
420
DIVERSITY REGISTRATION UNIT
390
TUNNEL CANCELING UNIT
400
SELECTION PROCESSOR
410
SN DELETING UNIT
SIGNAL FROM NETWORK TERMINAL 110
SIGNAL TO AP 130b
SIGNAL TO AP 130c
REGISTRATION SIGNAL FROM STA
SIGNAL FROM AP 130b
SIGNAL FROM AP 130c
SIGNAL TO NETWORK TERMINAL 110

FIG.4

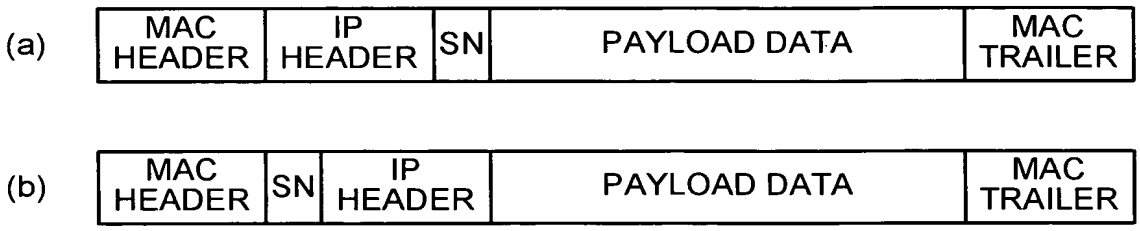

(a)
MAC HEADER
IP HEADER
SN
PAYLOAD DATA
MAC TRAILER
(b)
MAC HEADER
SN
IP HEADER
PAYLOAD DATA
MAC TRAILER

FIG.5

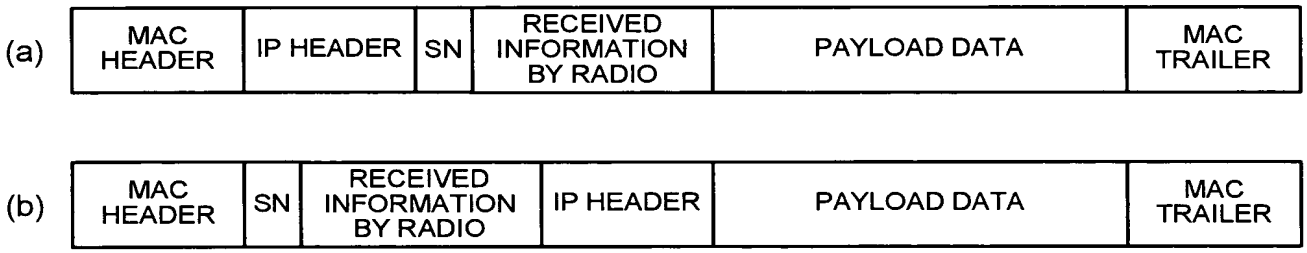

(a)
MAC HEADER
IP HEADER
SN
RECEIVED INFORMATION BY RADIO
PAYLOAD DATA
MAC TRAILER
(b)
MAC HEADER
SN
RECEIVED INFORMATION BY RADIO
IP HEADER
PAYLOAD DATA
MAC TRAILER

FIG.6

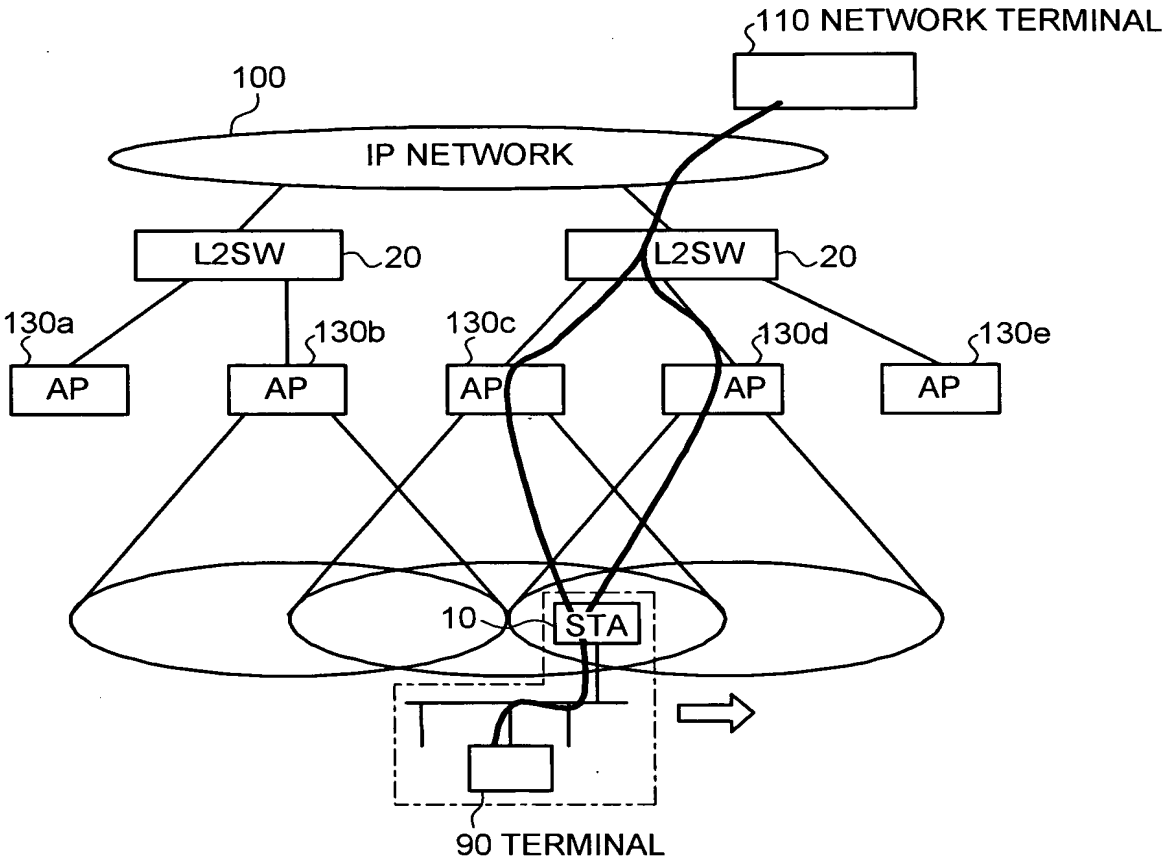

110 NETWORK TERMINAL
100
IP NETWORK
L2SW
20
L2SW
20
130a
130b
130c
130d
130e
AP
AP
AP
AP
AP
10
STA
90 TERMINAL

FIG.7

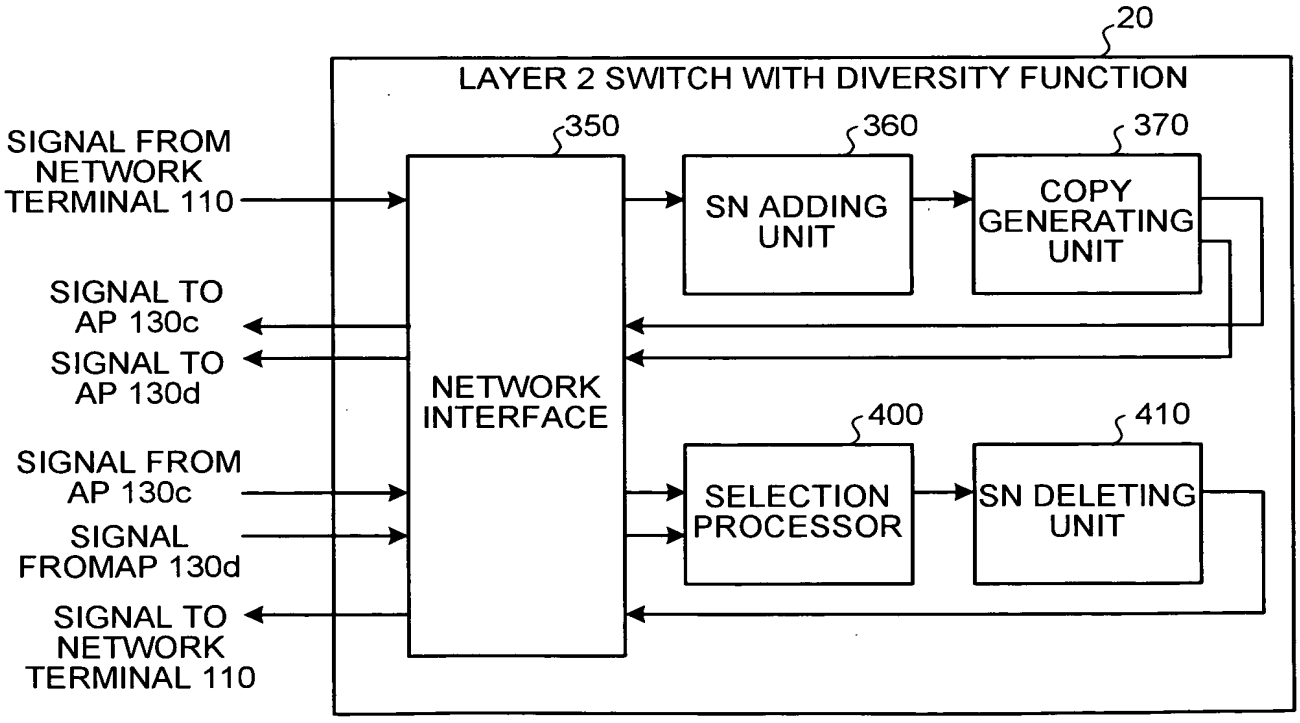
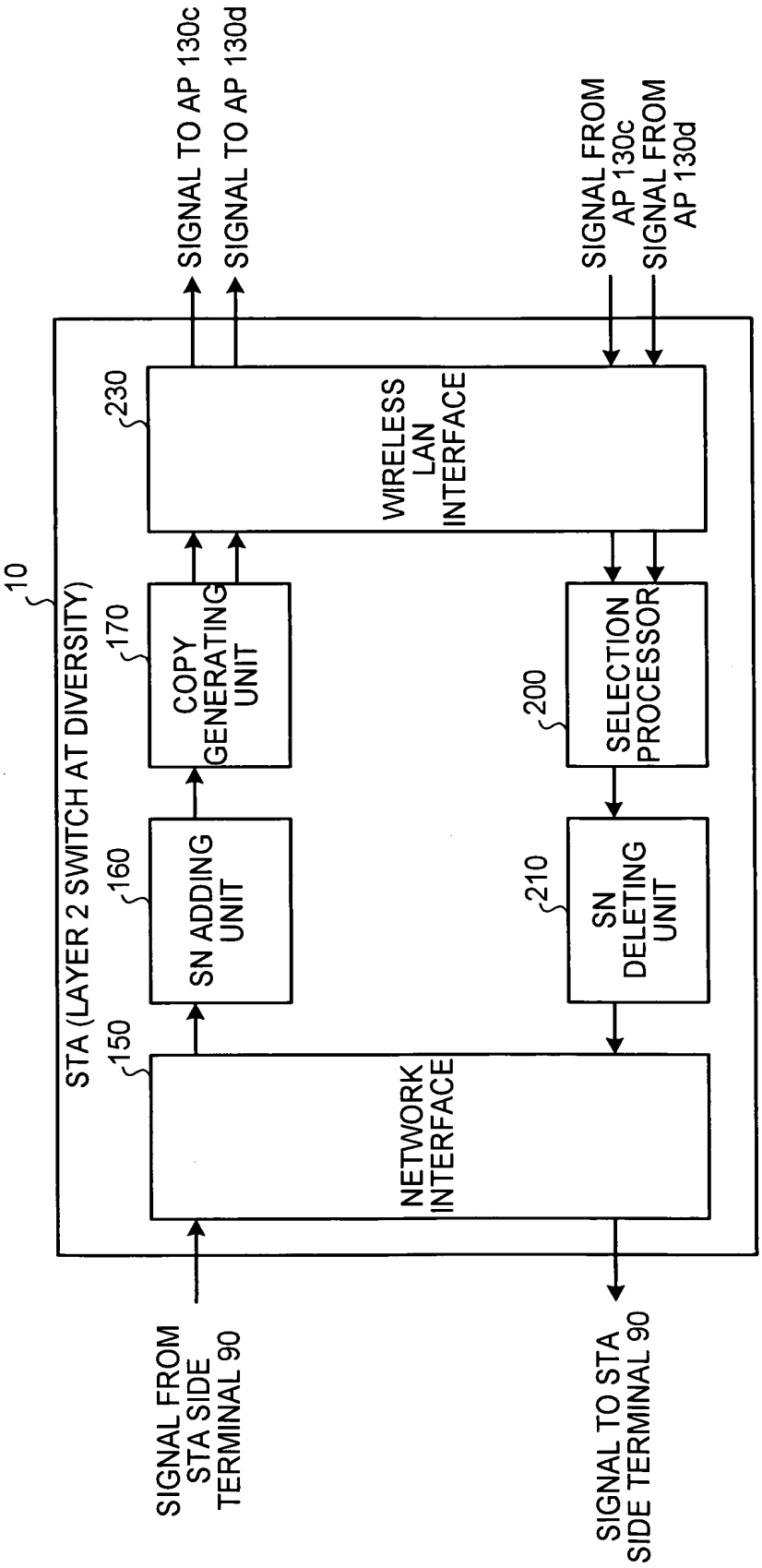

20
LAYER 2 SWITCH WITH DIVERSITY FUNCTION
350
360
370
SIGNAL FROM NETWORK TERMINAL 110
SN ADDING UNIT
COPY GENERATING UNIT
SIGNAL TO AP 130c
SIGNAL TO AP 130d
NETWORK INTERFACE
400
410
SIGNAL FROM AP 130c
SIGNAL FROMAP 130d
SELECTION PROCESSOR
SN DELETING UNIT
SIGNAL TO NETWORK TERMINAL 110

FIG.8


SIGNAL TO AP 130c
SIGNAL TO AP 130d
SIGNAL FROM AP 130c
SIGNAL FROM AP 130d
10
STA (LAYER 2 SWITCH AT DIVERSITY)
230
WIRELESS LAN INTERFACE
170
COPY GENERATING UNIT
200
SELECTION PROCESSOR
160
SN ADDING UNIT
210
SN DELETING UNIT
150
NETWORK INTERFACE
SIGNAL FROM STA SIDE TERMINAL 90
SIGNAL TO STA SIDE TERMINAL 90